

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A projection system having comprising:  
\_\_\_\_\_ a projection display ~~(20);~~  
\_\_\_\_\_ at least one light source ~~(10);~~ and  
\_\_\_\_\_ a sensor means for sensing and compensating for changes in the luminous flux emitted by the at least one light source ~~(10)~~, wherein light emitted from the at least one light source comprises a first and a second spatial component which impinge on an entering face of an optical component of the projection system and a third spatial component which is directed into a region immediately surrounding the entering face, and wherein the sensor ~~which means has~~ comprises at least one sensor arrangement ~~(30; 31, 32; 33, 34)~~ for sensing components ~~(M)~~ the third spatial component of the light from the light source ~~(10)~~ that ~~are~~ is directed into ~~[[a]]~~ the region immediately surrounding [[an]] the entering face of [[an]] the optical component (11) of the projection system.
2. (Currently Amended) A projection system as claimed in claim 1, ~~wherein further comprising~~ a driver means (20a) for driving the projection display (20) can be, wherein the driver means is controlled by the sensor arrangement (30; 31, 32; 33, 34) to compensate for fluctuations in the luminous flux.
3. (Currently Amended) A projection system as claimed in claim 1, ~~wherein further comprising~~ a power supply unit (10c) of the at least one light source (10) can be, wherein the power supply unit is controlled by the sensor arrangement (30; 31, 32; 33, 34) to compensate for the fluctuations in the luminous flux.

4. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement ~~is formed by~~ comprises a plurality of sensors ~~(30) that are~~ proximate the entering face and along the circumference of the optical component (44) and wherein the plurality of sensors are directed at the light source ~~(10)~~.

5. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement ~~is formed by~~ comprises an optical waveguide structure ~~(31)~~, proximate to and surrounding the entering face of the optical component ~~(44)~~, to couple in incident light corresponding to the third spatial component of light from the light source (10), and at least one sensor ~~(32)~~ to sense the third spatial component of light that is coupled in.

6. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement ~~is formed by~~ comprises a surface ~~(33)~~, proximate to and surrounding the entering face of the optical component ~~(44)~~, to scatter incident light corresponding to the third spatial component of light coming from the light source ~~(10)~~, and a sensor ~~(34)~~ to sense the third spatial component of light that is scattered.

7. (Currently Amended) A projection system as claimed in claim 6, wherein further the sensor ~~(34)~~ is arranged substantially next to the light source ~~(10)~~ in a direction perpendicular to the direction of propagation of the light produced by the light source ~~(10)~~.

8. (Currently Amended) A projection system as claimed in claim 1, wherein the optical component ~~is~~ comprises a rod integrator ~~(44)~~ for homogenizing the first and second spatial components of light produced by the light source ~~(10)~~ which impinge on the entering face of the optical component.

9. (Currently Amended) A projection system as claimed in claim 1, having further comprising a color display for sequential color representation and, as a light source ~~(10)~~, at least one high-pressure gas-discharge lamp operated by alternating current.